



In re application of:

Douglas D. FITZPATRICK et al.

Art Unit: 2817

Appl. No: 10/712,271

Examiner: Unassigned

Confirmation No: 7946

Filed: November 14, 2003

Atty. Docket No: 28549-198484

Customer No:

26694

For: BI-PHASE MODULATOR FOR **ULTRA WIDEBAND SIGNALS**

INFORMATION DISCLOSURE STATEMENT

Commission for Patents P.O. Box 1450 Alexandria, VA 22313-1450

This is an Information Disclosure Statement submitted under 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(c).

Attached is a PTO-Form 1449 listing the cited documents as well as one document cited in the enclosed International Search Report, where the relevance is indicated (copies enclosed). No further statement of relevance is required.

Pursuant to 37 C.F.R § 1.97(e)(1), on information and belief each item of information contained in this Information Disclosure Statement that was first cited in a communication from a foreign patent office in a counterpart foreign application was not cited more than three months prior to the filing of this Statement.

In view of the above, no further translation or statement of relevance is required, and as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information

Disclosure Statements have been complied with, and it is therefore respectfully requested that the Examiner consider the documents and make them of record.

Should the remittance be inadvertently missing, or should any greater or lessor fee be required, please charge or credit our Deposit Account No. 22-0261 and advise us accordingly.

Date 4/25/04

Robert S. Rabayi

Registration No. 33,471

VENABLE

Sincerely,

P.O. Box 34385

Washington, D.C. 20043-9998 Telephone: (202) 344-4000

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PTO/SB/08A (08-00)

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First Named Inventor	Douglas Fitzpatrick	E		
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			U.S.	PATENT DOCUM	MENTS			
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	FOREIGN PATENT DOCUMENTS								
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known 10/712,271 **Application Number** Filing Date November 14, 2003 First Named Inventor Douglas Fitzpatrick Group Art Unit 2817 Unassigned **Examiner Name**

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Sheet

2817 **Attorney Docket Number**

	,	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Nishikawa et al., "Compact and Broad-Band Three Dimensional MMIC Balun", IEEE Transaction on Microwave Theory and Techniques, Vol. 47, No. 1, pp. 96-98 (1999)	
		Ang et al., "Converting Baluns Into Broad-Band Impedance-Transforming 180 Hybrids", IEEE Transaction on Microwave Theory and Techniques, Vol. 50, No. 8, pp. 1990-95 (2002)	
		Gokdemir et al., "Design and Performance of GaAs MMIC CPW Baluns Using Overlaid and Spiral Couplers", IEEE Transaction on Microwave Theory and Techniques, pp. 401-404 (1997)	
		Gupta et al., "Microstrip Lines and Slotlines", ARTECH House Inc., pp. 231-55 (1979)	
		Yoon et al., "Modeling of Monolithic RF Spiral Transmission-Line Balun", IEEE Transaction on Microwave Theory and Techniques, Vol. 49, No. 2, pp. 393-395 (2001)	
		Womack, "The Use of Exponential Transmission Lines In Microwave Components", IRE Transaction on Microwave Theory and Techniques, pp. 124-132	

Examiner Signature	Date Considered	
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